

03C0



OIPE

#7

RAW SEQUENCE LISTING

DATE: 04/22/2002

PATENT APPLICATION: US/09/982,532A

TIME: 17:19:42

Input Set : A:\5432000010 Seqlist.ST25.txt

Output Set: N:\CRF3\04222002\I982532A.raw

ENTERED

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3 <110> APPLICANT: Madsen, Soren
4     Vrang, Astrid
5     Bredmose, Lars
6     Ravn, Peter
7     Glenting, Jacob
8     Johnson, Mads Gronvald
9     Israelsen, Hans
11 <120> TITLE OF INVENTION: REGULATION OF PROMOTER ACTIVITY IN CELLS
13 <130> FILE REFERENCE: 54320.000010
15 <140> CURRENT APPLICATION NUMBER: US 09/982,532A
16 <141> CURRENT FILING DATE: 2001-10-19
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 26
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: Cy5 labelled ISS1.F1 primer
30 <400> SEQUENCE: 1
31 ggaacgctct tcggattttc ggtatc
34 <210> SEQ ID NO: 2
35 <211> LENGTH: 24
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <223> OTHER INFORMATION: Cy5 labelled ISS1.R1 primer
42 <400> SEQUENCE: 2
43 gttcattgat atacctcgc tgtc
46 <210> SEQ ID NO: 3
47 <211> LENGTH: 899
48 <212> TYPE: DNA
49 <213> ORGANISM: Lactococcus lactis
51 <400> SEQUENCE: 3
52 atagtgcgcc agcagttgta attgtttgga taatatacta tcttattcac ggtaaaccatc
54 aaaaatcaag ctctgaagtt tgatttaaatt gatttacata aaacatgtta taataaaggg
56 gttacagccc tgtatatggc gaaataaatg aataaaaaat agcgagtaga tgagttttta
58 aatgaaagaa atggcaaacg taaacattga atatctaata aatacactgg aacaaaaaaa
60 agtgagtggt gtaacacgca aaaaacatag ttatatcatg tatcaaggga ttgaatcaga
62 atatatctat gtactcaaag atgggtgtagc gaagattagc aatattttta gagatgggtc
64 tgaattttaat attgcttatg ttgcggagcc agactttgtt tctttattgg aagagaaaca
66 aaacgatgga atttcagcat tatttaattg acgaattgag tctccaacag ccagttttta
68 caaaatttca cgcagtgatt ttggaattg ggttcgtgag gatttgaatt tattcagagt

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70 tgttgatgac ttttataaac gaagactagc acttaattta gaaattcttc aaaagatgac      600
72 aatcaatggt aagaagggag cggtttgccg ttgccttcac agtttgattg atgatttcgg      660
74 aataagaaaa aaagatggaa ttctgattga ttttaccgtc actaatgaag atattgcagg      720
76 tttttgtggt atttctacac gaaatagtgt taaccgtatt cttcatgatt taaaggatga      780
78 aaaagtaatt ggagtgattg ataataaaaat tatgatttat aatcctcaat acttagaaga      840
80 atatattagt taatataaat aaataaaaaaa gctactttaa gtagcttttt tgctataat      899

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83 <210> SEQ ID NO: 4

84 <211> LENGTH: 227

85 <212> TYPE: PRT

86 <213> ORGANISM: Lactococcus lactis

88 <400> SEQUENCE: 4

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90 Met Ser Phe Lys Met Lys Glu Met Ala Asn Val Asn Ile Glu Tyr Leu
91 1          5          10          15
94 Ile Asn Thr Leu Glu Gln Lys Lys Val Ser Val Val Thr Arg Lys Lys
95          20          25          30
98 His Ser Tyr Ile Met Tyr Gln Gly Ile Glu Ser Glu Tyr Ile Tyr Val
99          35          40          45
102 Leu Lys Asp Gly Val Ala Lys Ile Ser Asn Ile Leu Arg Asp Gly Arg
103          50          55          60
106 Glu Phe Asn Ile Ala Tyr Val Ala Glu Pro Asp Phe Val Ser Leu Leu
107 65          70          75          80
110 Glu Glu Lys Gln Asn Asp Gly Ile Ser Ala Leu Phe Asn Val Arg Ile
111          85          90          95
114 Glu Ser Pro Thr Ala Ser Phe Tyr Lys Ile Ser Arg Ser Asp Phe Trp
115          100          105          110
118 Asn Trp Val Arg Glu Asp Leu Asn Leu Phe Arg Val Val Asp Asp Phe
119          115          120          125
122 Tyr Lys Arg Arg Leu Ala Leu Asn Leu Glu Ile Leu Gln Lys Met Thr
123          130          135          140
126 Ile Asn Gly Lys Lys Gly Ala Val Cys Ala Cys Leu His Ser Leu Ile
127 145          150          155          160
130 Asp Asp Phe Gly Ile Arg Lys Lys Asp Gly Ile Leu Ile Asp Phe Thr
131          165          170          175
134 Val Thr Asn Glu Asp Ile Ala Gly Phe Cys Gly Ile Ser Thr Arg Asn
135          180          185          190
138 Ser Val Asn Arg Ile Leu His Asp Leu Lys Asp Glu Lys Val Ile Gly
139          195          200          205
142 Val Ile Asp Asn Lys Ile Met Ile Tyr Asn Pro Gln Tyr Leu Glu Glu
143          210          215          220
146 Tyr Ile Ser
147 225

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150 <210> SEQ ID NO: 5

151 <211> LENGTH: 227

152 <212> TYPE: PRT

153 <213> ORGANISM: Lactococcus lactis

155 <400> SEQUENCE: 5

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157 Met Ser Phe Lys Met Lys Glu Met Ala Asn Val Asn Ile Glu Tyr Leu
158 1          5          10          15
161 Ile Asn Thr Leu Glu Gln Lys Lys Val Ser Val Val Thr Arg Lys Lys

```

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162          20          25          30
165 His Ser Tyr Ile Met Tyr Gln Gly Ile Glu Ser Glu Tyr Ile Tyr Val
166          35          40          45
169 Leu Lys Asp Gly Val Ala Lys Ile Ser Asn Ile Leu Arg Asp Gly Arg
170          50          55          60
173 Glu Phe Asn Ile Ala Tyr Val Ala Glu Pro Asp Phe Val Ser Leu Leu
174 65          70          75          80
177 Glu Glu Lys Gln Asn Asp Gly Ile Ser Ala Leu Phe Asn Val Arg Ile
178          85          90          95
181 Glu Ser Pro Thr Ala Ser Phe Tyr Lys Ile Ser Arg Ser Asp Phe Trp
182          100          105          110
185 Asn Trp Val Arg Glu Asp Leu Asn Leu Phe Arg Val Val Asp Asp Phe
186          115          120          125
189 Tyr Lys Arg Arg Leu Ala Leu Asn Leu Glu Ile Leu Gln Lys Met Thr
190          130          135          140
193 Ile Asn Gly Lys Lys Gly Ala Val Cys Ala Cys Leu His Ser Leu Ile
194 145          150          155          160
197 Asp Asp Phe Gly Ile Arg Lys Lys Asp Gly Ile Leu Ile Asp Phe Thr
198          165          170          175
201 Val Thr Asn Glu Asp Ile Ala Gly Phe Cys Gly Ile Ser Thr Arg Asn
202          180          185          190
205 Ser Val Asn Arg Ile Leu His Asp Leu Lys Asp Glu Lys Val Ile Gly
206          195          200          205
209 Val Ile Asp Asn Lys Ile Met Ile Tyr Asn Pro Gln Tyr Leu Glu Glu
210          210          215          220
213 Tyr Ile Ser
214 225
217 <210> SEQ ID NO: 6
218 <211> LENGTH: 237
219 <212> TYPE: PRT
220 <213> ORGANISM: Bacillus licheniformis
222 <400> SEQUENCE: 6
224 Met Asn Ile Ser Val Arg Lys Ser Asp Thr Asp Leu Leu Ser Asp Asp
225 1          5          10          15
228 Leu His His Leu Leu Glu Ser Ile Ser Thr Arg Arg Lys Ile Arg Gln
229          20          25          30
232 Asp Thr Phe Leu Phe Gln Glu Gly Met Asp Ala Glu Glu Leu Tyr Leu
233          35          40          45
236 Ile Gln Ser Gly Leu Val Gln Ile Gly Lys Leu Thr Ser Asp Gly Lys
237          50          55          60
240 Glu Leu Thr Leu Arg Met Cys Lys Lys Asn Asp Ile Val Gly Glu Leu
241 65          70          75          80
244 Thr Leu Phe Thr Glu Asp Ala Lys Tyr Met Leu Ser Ala Lys Ile Leu
245          85          90          95
248 Ser Asp Gly Glu Val Leu Val Ile Asn Lys Asp Lys Leu Glu Lys Glu
249          100          105          110
252 Leu Ile Gln Asn Gly Ala Leu Thr Phe Glu Phe Met Lys Trp Met Ser
253          115          120          125
256 Thr His Leu Arg Lys Ile Gln Ser Lys Ile Arg Asp Leu Leu Leu Asn

```

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```

257      130      135      140
260 Gly Lys Lys Gly Ala Leu Tyr Ser Thr Leu Ile Arg Leu Ala Asn Ser
261 145      150      155      160
264 Tyr Gly Ile Thr Arg Ser Asp Gly Ile Leu Ile Asn Ile Val Leu Thr
265      165      170      175
268 Asn Gln Asp Leu Ala Lys Phe Cys Ala Ala Arg Glu Ser Ile Asn
269      180      185      190
272 Arg Met Leu Ser Asp Leu Arg Lys Asn Gly Val Ile Ser Ile Glu Asp
273      195      200      205
276 Ser Gly Lys Ile Val Ile His Gln Ile Asn Tyr Leu Lys Arg Glu Ile
277      210      215      220
280 Asp Cys Glu Asn Cys Pro Leu Glu Ile Cys Asn Ile Asp
281 225      230      235

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284 <210> SEQ ID NO: 7

285 <211> LENGTH: 11

286 <212> TYPE: DNA

287 <213> ORGANISM: Lactobacillus lactis

289 <220> FEATURE:

290 <221> NAME/KEY: misc_feature

291 <222> LOCATION: (6)..(6)

292 <223> OTHER INFORMATION: n equals a, t, g or c

295 <400> SEQUENCE: 7

OK-> 296 cmtgancak g 11

299 <210> SEQ ID NO: 8

300 <211> LENGTH: 11

301 <212> TYPE: DNA

302 <213> ORGANISM: Lactococcus lactis

304 <220> FEATURE:

305 <221> NAME/KEY: misc_feature

306 <222> LOCATION: (6)..(6)

307 <223> OTHER INFORMATION: n equals a, t, g or c

310 <400> SEQUENCE: 8

OK-> 311 ttgatnatca a 11

314 <210> SEQ ID NO: 9

315 <211> LENGTH: 54

316 <212> TYPE: DNA

317 <213> ORGANISM: Lactobacillus lactis

319 <400> SEQUENCE: 9

320 tagtaggatc cgaaaggagg cactcaaaat gagttttaaa atgaaagaaa tggc 54

323 <210> SEQ ID NO: 10

324 <211> LENGTH: 34

325 <212> TYPE: DNA

326 <213> ORGANISM: Lactobacillus lactis

328 <400> SEQUENCE: 10

329 tagtaggatc cgaatatttc gatatcacgc tgac 34

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/982,532A

DATE: 04/22/2002
TIME: 17:19:43

Input Set : A:\5432000010 Seqlist.ST25.txt
Output Set: N:\CRF3\04222002\I982532A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 6

Seq#:8; N Pos. 6